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APPLICATION N	O. F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/644,377	_	08/20/2003	Stefan Wieland	13437US 6136		
23719	7590	09/07/2005		EXAMINER		
	& SPRING			LANGEL, WAYNE A		
488 MAD 19TH FLO	DISON AVE OOR	NUE		ART UNIT	PAPER NUMBER	
NEW YO	RK, NY 1	0022		1754		
				DATE MAILED: 09/07/200:	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

1.1

	Application No.	Applicant(s)				
Office Action Summany	10/644,377	WIELAND ET AL.				
Office Action Summary	Examiner	Art Unit				
	Wayne Langel	1754				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address ·	•			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on	_•					
2a) ☐ This action is <b>FINAL</b> . 2b) ☒ This	- action is non-final.					
3) Since this application is in condition for allowan	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E.	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims						
<ul> <li>4)  Claim(s) 1-13 is/are pending in the application.</li> <li>4a) Of the above claim(s) 9-13 is/are withdrawn from consideration.</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) 1-8 is/are rejected.</li> <li>7)  Claim(s) is/are objected to.</li> <li>8)  Claim(s) 1-13 are subject to restriction and/or election requirement.</li> </ul>						
Application Papers						
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the d Replacement drawing sheet(s) including the correction  11) The oath or declaration is objected to by the Examiner	pted or b) objected to by the E lrawing(s) be held in abeyance. See on is required if the drawing(s) is obje	37 CFR 1.85(a). ected to. See 37 CFR 1.12	` '			
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 11-12-03	4) Interview Summary ( Paper No(s)/Mail Dai 5) Notice of Informal Pa	e				

U.S. Patent and Trademark Office PTOL-326 (Rev. 7-05) Restriction to one of the following inventions is required under 35 U.S.C. 121:

I. Claims 2-8, drawn to a catalyst, classified in class 502, subclass 339.

II. Claim 9-13, drawn to a process and apparatus for autothermal reforming of hydrocarbons, classified in class 423, subclass 652.

Claim 1 link(s) inventions I and II. The restriction requirement between the linked inventions is subject to the nonallowance of the linking claim(s), claim 1. Upon the allowance of the linking claim(s), the restriction requirement as to the linked inventions shall be withdrawn and any claim(s) depending from or otherwise including all the limitations of the allowable linking claim(s) will be entitled to examination in the instant application. Applicant(s) are advised that if any such claim(s) depending from or including all the limitations of the allowable linking claim(s) is/are presented in a continuation or divisional application, the claims of the continuation or divisional application may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Where a restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. *In re Ziegler*, 44 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

The inventions are distinct, each from the other because:

Inventions I and II are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the process for using the

Application/Control Number: 10/644,377

Art Unit: 1754

product as claimed can be practiced with another materially different product, such as one which does not include the detailed limitations of the product as recited in claims 2-8.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, and vice versa, restriction for examination purposes as indicated is proper.

During a telephone conversation with Mr. Santalone on September 1, 2005 a provisional election was made with traverse to prosecute the invention of Group I, claims 2-8. Affirmation of this election must be made by applicant in replying to this Office action. Claims 9-13 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim

Application/Control Number: 10/644,377

Art Unit: 1754

remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 1 is rejected under 35 U.S.C. 102(a) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Hwang et al '363. No distinction is seen between the catalyst disclosed by Hwang et al '363, and that recited in claim 1, since Hwang et al '363 discloses at col. 5, lines 25-37 that the partial oxidation catalyst may be rhodium, and further discloses at col. 5, lines 46-60 that the steam reforming catalyst may be platinum. In any event, it would be prima facie obvious from the aforementioned passages of Hwang et al '363 to select platinum as the as the stem reforming catalyst and rhodium as the partial oxidation catalyst, since Hwang et al '363 teaches that those metals may be employed as the steam reforming and partial oxidation catalysts, respectively. In any event, Hwang et al '363 teaches at col. 6, lines 54-58 that the catalyst may have multiple layers of steam reforming catalysts and multiple layers of

Application/Control Number: 10/644,377

Art Unit: 1754

partial oxidation catalysts, in which case the partial oxidation catalyst could be considered to constitute the "lower catalyst layer" and the steam reforming catalyst would be considered to constitute the "upper catalyst layer".

Claims 2-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hwang et al '363. It would be prima facie obvious to employ the platinum and rhodium in amounts of 0.1 to 5% by weight in the catalyst of Hwang et al '363, since it would be within the skill if one of ordinary skill in the art to determine a suitable or optimum amount of the platinum and rhodium to employ.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 4-8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In claims 4 and 8, "selected from ..." is improper Markush terminology. In claims 4 and 7, it is indefinite as to which oxides "those oxides" would refer to.

Ahmed et al is made of record for disclosing a combined partial oxidation and steam reforming catalyst.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wayne Langel whose telephone number is 571-272-1353. The examiner can normally be reached on Mondays to Fridays from 8 to 3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman, can be reached on 571-272-1358. The fax phone

Application/Control Number: 10/644,377 Page 6

Art Unit: 1754

number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Wayne Langel

Primary Examiner Art Unit 1754